#2

OIPE

RAW SEQUENCE LISTING DATE: 09/18/2001 PATENT APPLICATION: US/09/940,921 TIME: 10:36:16

Input Set : C:\Crf3\Datahold\09543955
Output Set: N:\CRF3\09182001\1940921.raw

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4 <110> APPLICANT: Little, II, Roger G.
     6 <120> TITLE OF INVENTION: IDENTIFICATION OF NOVEL ANTIMICROBIAL AGENTS USING
             METABOLIC OXIDATION-REDUCTION INDICATOR DYES
     9 <130> FILE REFERENCE: 27129/36226
C--> 11 <140> CURRENT APPLICATION NUMBER: US/09/940,921
C--> 12 <141> CURRENT FILING DATE: 2001-08-28
    14 <150> PRIOR APPLICATION NUMBER: 60/143,290
    15 <151> PRIOR FILING DATE: 1999-07-12
    17 <160> NUMBER OF SEQ ID NOS: 6
    19 <170> SOFTWARE: PatentIn Ver. 2.1
    21 <210> SEQ ID NO: 1
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    23 <212> TYPE: DNA
    24 <213> ORGANISM: Homo sapiens
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    28 <222> LOCATION: (31)..(1491)
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    32 <222> LOCATION: (124)..(1491)
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     39 cct tgc aac gcg ccg aga tgg gtg tcc ctg atg gtg ctc gtc gcc ata
                                                                          102
     40 Pro Cys Asn Ala Pro Arg Trp Val Ser Leu Met Val Leu Val Ala Ile
                                        -15
                   -20
     43 ggc acc gcc gtg aca gcg gcc gtc aac cct ggc gtc gtg gtc agg atc
    44 Gly Thr Ala Val Thr Ala Ala Val Asn Pro Gly Val Val Val Arg Ile
                - 5
                                 -1
     47 tee cag aag gge etg gae tae gee age cag eag ggg aeg gee get etg
     48 Ser Gln Lys Gly Leu Asp Tyr Ala Ser Gln Gln Gly Thr Ala Ala Leu
    49 10
                             15
                                                 20
     51 cag aag gag ctg aag agg atc aag att cct gac tac tca gac agc ttt
    52 Gln Lys Glu Leu Lys Arg Ile Lys Ile Pro Asp Tyr Ser Asp Ser Phe
                         30
    56 aag atc aag cat ctt ggg aag ggg cat tat agc ttc tac agc atg gac
                                                                          294
    57 Lys Ile Lys His Leu Gly Lys Gly His Tyr Ser Phe Tyr Ser Met Asp
                    45
     60 atc cgt gaa ttc cag ctt ccc agt tcc cag ata agc atg gtg ccc aat
     61 Ile Arg Glu Phe Gln Leu Pro Ser Ser Gln Ile Ser Met Val Pro Asn
                60
                                     65
                                                                          390
     64 gtg ggc ctt aag ttc tcc atc agc aac gcc aat atc aag atc agc ggg
     65 Val Gly Leu Lys Phe Ser Ile Ser Asn Ala Asn Ile Lys Ile Ser Gly
                                 80
     68 aaa tgg aag gca caa aag aga ttc tta aaa atg agc ggc aat ttt gac
     69 Lys Trp Lys Ala Gln Lys Arg Phe Leu Lys Met Ser Gly Asn Phe Asp
```

Input Set : C:\Crf3\Datahold\09543955
Output Set: N:\CRF3\09182001\I940921.raw

70 0	^				0.5					100					105	
	0				95		- 4- 4			100					105	406
72 ct																486
73 Le	u Ser	Ile	GIu	_	Met	Ser	Пе	Ser		Asp	Leu	ьуs	ьeu	_	ser	
74				110					115			٠		120		504
76 aa		-		-	-											534
77 As	n Pro	Thr		Gly	Lys	Pro	Thr		Thr	Cys	Ser	Ser	_	Ser	Ser	
78			125					130					135			
80 ca																582
81 Hi	s Ile	Asn	Ser	Val	His	Val	His	Ile	Ser	Lys	Ser	Lys	Val	Gly	Trp	
82		140					145					150				
84 ct																630
85 Le	u Ile	Gln	Leu	Phe	His	Lys	Lys	Ile	Glu	Ser	Ala	Leu	Arg	Asn	Lys	
86	155					160		•			165					
88 at	g aac	agc	cag	gtc	tgc	gag	aaa	gtg	acc	aat	tct	gta	tcc	tcc	aag	678
89 Me	t Asn	Ser	Gln	Val	Cys	Glu	Lys	Val	Thr	Asn	Ser	Val	Ser	Ser	Lys	
90 17	0				175					180					185	
92 ct	g caa	cct	tat	ttc	cag	act	ctg	cca	gtà	atg	acc	aaa	ata	gat	tct	726
93 Le	u Gln	Pro	Tyr	Phe	Gln	Thr	Leu	Pro	Val	Met	Thr	Lys	Ile	Asp	Ser	
94			-	190					195			-		200		
96 gt	a act	qqa	atc	aac	tat	aat	cta	ata	qca	cct	cca	qca	acc	acq	qct	774
97 Va																
98		-	205		-	-		210					215			
100 g	aσ ac	c ctc	r dat	: ata	cad	ato	raac		r crac	r ttt	: tac	agt	gad	aad	cac	822
101 G																
102		220	_		. 01		225	_	0_0		1 -	230				
104 c	ac aa				, +++	act			ato	rato	r gag			. act	acc	870
105 H																
106	23		, , ,	,	7 1110	240			, , , ,	. 1100	245					
108 c			ato	r ata	tac			a ata	t t da	gad			ttc	. aac	r aca	918
100 C	_	_	_	_		_	_									310
110 2		PAL	, 1100	. va.	255		. 01	y LCC		260			. 1110		265	
110 z		a att	+ a+=	+ = 1			r act		r ata			r ato	. 200			966
112 g																200
113 A	Ia GI	у пе	ı val	. 191 270		GIC	, AT	ı Gış	275		т пус	, ricc	. 1111	280		
114 116 g	at da	a ata	· >++				. +2				a + c	, 202	200			1014
	_	-	-		_					-						1014
117 A 118	sp As	р ме	285		о пув	GIU	1 261	. Буг 290		: AIC	, пес	I TIII	295		s FIIE	
	++				+											1063
120 t																1062
121 P	ne GI	_		: те	PIC	GIU			г гу	э гуу	Pne			Me	- гуѕ	
122		300					30	_				310				1110
124 a		-		_		-			_			_				1110
125 I			e His	val	. Ser			r Thi	Pro	Pro			Ser	· val	LGIn	
126	31		_			320				- •	325					
128 c								-		-			-			1158
129 P		r Gl	y Lei	1 Thi		_	Pro	o Ala	val	_		. Gln	Ala	Phe		
130 3					335					340					345	
132 g																1206
133 V	al Le	u Pro	o Asr			Let	ı Ala	a Ser			e Lei	ı Ile	Gly			
134				350)				355	5				360)	

Input Set : C:\Crf3\Datahold\09543955
Output Set: N:\CRF3\09182001\I940921.raw

				Ser					Ala					Leu	gtt Val		1254
138				365					370					375			1 200
			_	_	_		_		_	_					aat		1302
141	GIU	ьеu	380	Leu	Asp	Arg	Leu	ьеи 385	ьeu	GIU	ьeu	гу	390	ser	Asn	iie	
	aac	cdc		cca	att	gaa	tta		cag	gat	atc	atσ		tac	att	αta	1350
															Ile		1000
146		395					400			, F		405		-1-			
	ccc		ctt	qtq	ctg	ccc	agg	gtt	aac	gag	aaa	cta	cag	aaa	ggc	ttc	1398
															Gly		
150	410					415					420					425	
152	cct	ctc	ccg	acg	ccg	gcc	aga	gtc	cag	ctc	tac	aac	gta	gtg	ctt	cag	1446
153	Pro	Leu	Pro	Thr	Pro	Ala	Arg	Val	Gln		Tyr	Asn	Val	Val	Leu	Gln	
154					430					435					440		
						ctg											1491
157	Pro	His	Gln		Phe	Leu	Leu	Phe		Ala	Asp	Val	Val		Lys		
158				445					450					455			
																tggggc	
																caaact	
																aagtg	
																atattt	
					-		_	aacca	a aga	aaatt	tcc	atti	tgtg	ctt	catga	aaaaaa	
		-	_			tg t	J										1813
)> SI															
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178	1100	וא כו	ים זו 🗠	JOE.													
)> SI				Δla	Arσ	Glv	Pro	Cvs	Asn	Δla	Pro	Ara	Trp	Val (
179		Arg				Ala		Gly	Pro	Cys			Pro	Arg	Trp	Val	
179 180	Met	Arg -30	Glu	Asn	Met		-25					- 20					
179 180	Met Ser	Arg -30	Glu	Asn	Met		-25					- 20			Trp Ala -1		
179 180 182 183	Met Ser -15	Arg -30 Leu	Glu Met	Asn Val	Met Leu	Val -10	-25 Ala	Ile	Gly	Thr	Ala -5	-20 Val	Thr	Ala	Ala -1	Val 1	
179 180 182 183	Met Ser -15	Arg -30 Leu	Glu Met	Asn Val	Met Leu	Val -10	-25 Ala	Ile	Gly	Thr	Ala -5	-20 Val	Thr	Ala	Ala	Val 1	
179 180 182 183 185 186	Met Ser -15 Asn	Arg -30 Leu Pro	Glu Met Gly	Asn Val Val 5	Met Leu Val	Val -10 Val	-25 Ala Arg	Ile Ile	Gly Ser 10	Thr Gln	Ala -5 Lys	-20 Val Gly	Thr Leu	Ala Asp 15	Ala -1	Val 1 Ala	
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179 180 182 183 185 186 188	Met Ser -15 Asn Ser	Arg -30 Leu Pro Gln	Glu Met Gly Gln 20	Asn Val Val 5 Gly	Met Leu Val Thr	Val -10 Val Ala	-25 Ala Arg Ala	Ile Ile Leu 25	Gly Ser 10 Gln	Thr Gln Lys	Ala -5 Lys Glu	-20 Val Gly Leu	Thr Leu Lys 30	Ala Asp 15 Arg	Ala -1 Tyr	Val 1 Ala Lys	
179 180 182 183 185 186 188 189 191	Met Ser -15 Asn Ser Ile	Arg -30 Leu Pro Gln Pro 35	Glu Met Gly Gln 20 Asp	Asn Val Val 5 Gly Tyr	Met Leu Val Thr	Val -10 Val Ala Asp	-25 Ala Arg Ala Ser 40	Ile Ile Leu 25 Phe	Gly Ser 10 Gln Lys	Thr Gln Lys Ile	Ala -5 Lys Glu Lys	-20 Val Gly Leu His 45	Thr Leu Lys 30 Leu	Ala Asp 15 Arg	Ala -1 Tyr Ile Lys	Val 1 Ala Lys Gly	
179 180 182 183 185 186 188 189 191 192	Met Ser -15 Asn Ser Ile His	Arg -30 Leu Pro Gln Pro 35	Glu Met Gly Gln 20 Asp	Asn Val Val 5 Gly Tyr	Met Leu Val Thr	Val -10 Val Ala Asp	-25 Ala Arg Ala Ser 40	Ile Ile Leu 25 Phe	Gly Ser 10 Gln Lys	Thr Gln Lys Ile	Ala -5 Lys Glu Lys Glu	-20 Val Gly Leu His 45	Thr Leu Lys 30 Leu	Ala Asp 15 Arg	Ala -1 Tyr Ile	Val 1 Ala Lys Gly Ser	
179 180 182 183 185 186 188 191 192 194 195	Met Ser -15 Asn Ser Ile His 50	Arg -30 Leu Pro Gln Pro 35 Tyr	Glu Met Gly Gln 20 Asp Ser	Asn Val Val 5 Gly Tyr Phe	Met Leu Val Thr Ser	Val -10 Val Ala Asp Ser 55	-25 Ala Arg Ala Ser 40 Met	Ile Ile Leu 25 Phe Asp	Gly Ser 10 Gln Lys Ile	Thr Gln Lys Ile Arg	Ala -5 Lys Glu Lys Glu 60	-20 Val Gly Leu His 45 Phe	Thr Leu Lys 30 Leu Gln	Ala Asp 15 Arg Gly Leu	Ala -1 Tyr Ile Lys Pro	Val 1 Ala Lys Gly Ser 65	
179 180 182 183 185 186 188 189 191 192 194 195 197	Met Ser -15 Asn Ser Ile His 50	Arg -30 Leu Pro Gln Pro 35 Tyr	Glu Met Gly Gln 20 Asp Ser	Asn Val Val 5 Gly Tyr Phe	Met Leu Val Thr Ser Tyr Met	Val -10 Val Ala Asp Ser 55	-25 Ala Arg Ala Ser 40 Met	Ile Ile Leu 25 Phe Asp	Gly Ser 10 Gln Lys Ile	Thr Gln Lys Ile Arg Gly	Ala -5 Lys Glu Lys Glu 60	-20 Val Gly Leu His 45 Phe	Thr Leu Lys 30 Leu Gln	Ala Asp 15 Arg Gly Leu	Ala -1 Tyr Ile Lys Pro	Val 1 Ala Lys Gly Ser 65	
179 180 182 183 185 186 188 189 191 192 194 195 197	Met Ser -15 Asn Ser Ile His 50 Ser	Arg -30 Leu Pro Gln Pro 35 Tyr	Glu Met Gly Gln 20 Asp Ser Ile	Asn Val Val 5 Gly Tyr Phe Ser	Met Leu Val Thr Ser Tyr Met 70	Val -10 Val Ala Asp Ser 55 Val	-25 Ala Arg Ala Ser 40 Met	Ile Ile Leu 25 Phe Asp	Gly Ser 10 Gln Lys Ile Val	Thr Gln Lys Ile Arg Gly 75	Ala -5 Lys Glu Lys Glu 60 Leu	-20 Val Gly Leu His 45 Phe	Thr Leu Lys 30 Leu Gln Phe	Ala Asp 15 Arg Gly Leu Ser	Ala -1 Tyr Ile Lys Pro Ile 80	Val 1 Ala Lys Gly Ser 65 Ser	
179 180 182 183 185 186 188 189 191 192 194 195 197 198 200	Met Ser -15 Asn Ser Ile His 50 Ser	Arg -30 Leu Pro Gln Pro 35 Tyr	Glu Met Gly Gln 20 Asp Ser Ile	Asn Val Val 5 Gly Tyr Phe Ser Ile	Met Leu Val Thr Ser Tyr Met 70	Val -10 Val Ala Asp Ser 55 Val	-25 Ala Arg Ala Ser 40 Met	Ile Ile Leu 25 Phe Asp	Gly Ser 10 Gln Lys Ile Val Lys	Thr Gln Lys Ile Arg Gly 75	Ala -5 Lys Glu Lys Glu 60 Leu	-20 Val Gly Leu His 45 Phe	Thr Leu Lys 30 Leu Gln Phe	Ala Asp 15 Arg Gly Leu Ser Lys	Ala -1 Tyr Ile Lys Pro	Val 1 Ala Lys Gly Ser 65 Ser	
179 180 182 183 185 186 188 189 191 192 194 195 197 198 200 201	Met Ser -15 Asn Ser Ile His 50 Ser Asn	Arg -30 Leu Pro Gln Pro 35 Tyr Gln Ala	Glu Met Gly Gln 20 Asp Ser Ile Asn	Asn Val Val 5 Gly Tyr Phe Ser Ile 85	Met Leu Val Thr Ser Tyr Met 70 Lys	Val -10 Val Ala Asp Ser 55 Val	-25 Ala Arg Ala Ser 40 Met Pro	Ile Ile Leu 25 Phe Asp Asn Gly	Gly Ser 10 Gln Lys Ile Val Lys 90	Thr Gln Lys Ile Arg Gly 75 Trp	Ala -5 Lys Glu Lys Glu 60 Leu	-20 Val Gly Leu His 45 Phe Lys	Thr Leu Lys 30 Leu Gln Phe	Ala Asp 15 Arg Gly Leu Ser Lys 95	Ala -1 Tyr Ile Lys Pro Ile 80 Arg	Val 1 Ala Lys Gly Ser 65 Ser	
179 180 182 183 185 186 188 189 191 192 194 195 197 198 200 201 203	Met Ser -15 Asn Ser Ile His 50 Ser Asn	Arg -30 Leu Pro Gln Pro 35 Tyr Gln Ala	Glu Met Gly Gln 20 Asp Ser Ile Asn Met	Asn Val Val 5 Gly Tyr Phe Ser Ile 85	Met Leu Val Thr Ser Tyr Met 70 Lys	Val -10 Val Ala Asp Ser 55 Val	-25 Ala Arg Ala Ser 40 Met Pro	Ile Ile Leu 25 Phe Asp Asn Gly Asp	Gly Ser 10 Gln Lys Ile Val Lys 90	Thr Gln Lys Ile Arg Gly 75 Trp	Ala -5 Lys Glu Lys Glu 60 Leu	-20 Val Gly Leu His 45 Phe Lys	Thr Leu Lys 30 Leu Gln Phe Gln Gly	Ala Asp 15 Arg Gly Leu Ser Lys 95	Ala -1 Tyr Ile Lys Pro Ile 80	Val 1 Ala Lys Gly Ser 65 Ser	
179 180 182 183 185 186 188 189 191 192 194 195 197 198 200 201 203 204	Met Ser -15 Asn Ser Ile His 50 Ser Asn Leu	Arg -30 Leu Pro Gln Pro 35 Tyr Gln Ala Lys	Glu Met Gly Gln 20 Asp Ser Ile Asn Met 100	Asn Val Val 5 Gly Tyr Phe Ser Ile 85 Ser	Met Leu Val Thr Ser Tyr Met 70 Lys Gly	Val -10 Val Ala Asp Ser 55 Val Ile Asn	-25 Ala Arg Ala Ser 40 Met Pro Ser	Ile Ile Leu 25 Phe Asp Asn Gly Asp 105	Gly Ser 10 Gln Lys Ile Val Lys 90 Leu	Thr Gln Lys Ile Arg Gly 75 Trp Ser	Ala -5 Lys Glu Lys Glu 60 Leu Lys	-20 Val Gly Leu His 45 Phe Lys Ala Glu	Thr Leu Lys 30 Leu Gln Phe Gln Gly 110	Ala Asp 15 Arg Gly Leu Ser Lys 95 Met	Ala -1 Tyr Ile Lys Pro Ile 80 Arg	Val 1 Ala Lys Gly Ser 65 Ser Phe Ile	

Input Set : C:\Crf3\Datahold\09543955
Output Set: N:\CRF3\09182001\1940921.raw

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209 Ile Thr Cys Ser Ser Cys Ser Ser His Ile Asn Ser Val His Val His
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212 Ile Ser Lys Ser Lys Val Gly Trp Leu Ile Gln Leu Phe His Lys Lys
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                                       155
215 Ile Glu Ser Ala Leu Arg Asn Lys Met Asn Ser Gln Val Cys Glu Lys
                                   170
218 Val Thr Asn Ser Val Ser Ser Lys Leu Gln Pro Tyr Phe Gln Thr Leu
219
           180
                                185
221 Pro Val Met Thr Lys Ile Asp Ser Val Ala Gly Ile Asn Tyr Gly Leu
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       195
224 Val Ala Pro Pro Ala Thr Thr Ala Glu Thr Leu Asp Val Gln Met Lys
                        215
                                            220
227 Gly Glu Phe Tyr Ser Glu Asn His His Asn Pro Pro Pro Phe Ala Pro
                   230
                                        235
230 Pro Val Met Glu Phe Pro Ala Ala His Asp Arg Met Val Tyr Leu Gly
    245
                                . 250
233 Leu Ser Asp Tyr Phe Phe Asn Thr Ala Gly Leu Val Tyr Gln Glu Ala
                                                    270
           260
                                265
236 Gly Val Leu Lys Met Thr Leu Arg Asp Asp Met Ile Pro Lys Glu Ser
                            280
239 Lys Phe Arg Leu Thr Thr Lys Phe Phe Gly Thr Phe Leu Pro Glu Val
240 290
                        295
                                            300
242 Ala Lys Lys Phe Pro Asn Met Lys Ile Gln Ile His Val Ser Ala Ser
                    310
                                        315
245 Thr Pro Pro His Leu Ser Val Gln Pro Thr Gly Leu Thr Phe Tyr Pro
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                                    330
248 Ala Val Asp Val Gln Ala Phe Ala Val Leu Pro Asn Ser Ser Leu Ala
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           340
                                345
251 Ser Leu Phe Leu Ile Gly Met His Thr Thr Gly Ser Met Glu Val Ser
                            360
254 Ala Glu Ser Asn Arg Leu Val Gly Glu Leu Lys Leu Asp Arg Leu Leu
                                            380
                        375
257 Leu Glu Leu Lys His Ser Asn Ile Gly Pro Phe Pro Val Glu Leu Leu
                    390
                                        395
260 Gln Asp Ile Met Asn Tyr Ile Val Pro Ile Leu Val Leu Pro Arg Val
                                    410
263 Asn Glu Lys Leu Gln Lys Gly Phe Pro Leu Pro Thr Pro Ala Arg Val
                                425
                                                    430
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266 Gln Leu Tyr Asn Val Val Leu Gln Pro His Gln Asn Phe Leu Leu Phe
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269 Gly Ala Asp Val Val Tyr Lys
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276 <212> TYPE: PRT
277 <213> ORGANISM: Artificial Sequence
279 <220> FEATURE:
280 <223> OTHER INFORMATION: Description of Artificial Sequence: artificial V
281
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Input Set : C:\Crf3\Datahold\09543955
Output Set: N:\CRF3\09182001\1940921.raw

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286 <223> OTHER INFORMATION: Positions 1-10 are D-amino acids
288 <220> FEATURE:
289 <223> OTHER INFORMATION: The C-Terminus is Amidated
291 <400> SEQUENCE: 3
292 Lys Trp Leu Ile Gln Leu Phe His Lys Lys
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293
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326 <223> OTHER INFORMATION: Positions 1-10 are D-amino acids
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332 <223> OTHER INFORMATION: 8-amino-octanyl group; NH2-(CH2)7-CO at N-Terminus
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                      5
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349 <221> NAME/KEY: SITE
350 <222> LOCATION: (1)
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VERIFICATION SUMMARYDATE: 09/18/2001PATENT APPLICATION: US/09/940,921TIME: 10:36:17

Input Set : C:\Crf3\Datahold\09543955
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L:11 M:270 C: Current Application Number differs, Replaced Application Number

L:12 M:271 C: Current Filing Date differs, Replaced Current Filing Date

L:369 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6